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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: McMackin et al.
App. No.: 10/782,187 GPAU: 2854
Filing Date: February 19, 2004 Examiner: Sang H. Nguyen
Dkt. No.: P116-58-03 Conf. No.: 4105
For: METHOD AND SYSTEM TO MEASURE CHARACTERISTICS OF A FILM
DISPOSED ON A SUBSTRATE

INFORMATION DISCLOSURE STATEMENT

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The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
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to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the

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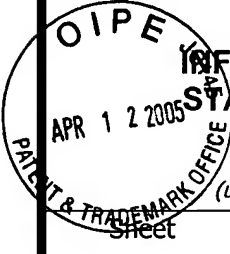
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 <p style="font-size: 1.2em; font-weight: bold;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				APPLICATION NUMBER 10/782,187	
				FILING DATE 02/19/2004	
				FIRST NAMED INVENTOR McMackin et al.	
				Group Art Unit 2877	
				Examiner Name Nguyen, Sang H.	
<div style="display: flex; justify-content: space-between;"> Sheet 1 of 8 </div>				Attorney Docket Number P116-58-03	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

	B1	4,731,155		Napoli et al.	3/15/1988	
	B2	5,425,848		Haisma et al.	6/20/1995	
	B3	5,563,702		Emery et al.	10/8/1996	
	B4	5,772,905		Chou	6/30/1998	
	B5	6,133,576		Shafer et al.	10/17/2000	
	B6	6,309,580	B1	Chou	10/30/2001	
	B7	6,334,960	B1	Willson et al.	1/1/2002	
	B8	6,387,787	B1	Mancini et al.	5/14/2002	
	B9	6,391,217	B2	Schaffer et al.	5/21/2002	
	B10	6,696,220	B2	Bailey et al.	2/24/2004	
	B11	2004/0007799	A1	Choi et al.	1/15/2004	
	B12	2004/0021254	A1	Sreenivasan et al.	2/5/2004	
	B13	2004/0021866	A1	Watts et al.	2/5/2004	
	B14	2004/0022888	A1	Sreenivasan et al.	2/5/2004	
	B15	2003/0205658	A1	Voisin	11/6/2003	
	B16	2002/0177319	A1	Chou	11/28/2002	
	B17	6,713,238	B1	Chou et al.	3/30/2004	
	B18	2004/0008334	A1	Sreenivasan et al.	1/15/2004	

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	B19	2004/0009673	A1	Sreenivasan et al.	1/15/2004	
	B20	2004/0124566	A1	Sreenivasan et al.	7/1/2004	
	B21	2004/0112153	A1	Choi et al.	6/17/2004	
	B22	6,245,581	B1	Bonser et al.	6/12/2001	
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	B33	6,633,391	B1	Oluseyi et al.	10/14/2003	
	B34	6,828,244	B2	Chou	12/7/2004	
	B35	6,809,356	B2	Chou	10/26/2004	
	B36	6,052,183		Lee	4/18/2000	

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	B37	6,278,519	B1	Rosencwaig et al.	8/21/2001	
	B38	6,297,880	B1	Rosencwaig et al.	10/2/2001	
	B39	6,603,538	B1	Oluseyi et al.	8/5/2003	
	B40	6,016,696		Bair et al.	1/25/2000	
	B41	6,112,588		Cavallaro et al.	9/5/2000	
	B42	5,837,892		Cavallaro et al.	11/17/1998	
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	B44	2004/0197843	A1	Chou et al.	10/7/2004	
	B45	2004/0156108	A1	Chou et al.	8/12/2004	
	B46	2004/0137734	A1	Chou et al.	7/15/2004	
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	B48	2004/0118809	A1	Chou et al.	6/24/2004	
	B49	2004/0046288	A1	Chou	3/11/2004	
	B50	2003/0080472	A1	Chou	5/1/2003	
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	B52	2002/0042027	A1	Chou et al.	4/11/2002	
	B53	2004/0223883	A1	Choi et al.	11/11/2004	
	B54	6,580,172	B2	Mancini et al.	6/17/2003	

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		Office 3	Number ⁴	Kind Code ⁵ (if known)				

	B65	WO	00/21689		Chou et al.	4/20/2000		
	B66	JP	02-92603		Kurikawa et al.	4/3/1990		
	B67	JP	02-24848		Kamio	1/26/1990		
	B68	WO	01/47003		Steiner et al.	6/28/2001		
	B69	WO	02/07199		Chou	1/24/2002		
	B70	WO	2004/114016		Chou et al.	12/29/2004		
	B71	WO	99/05724		Chou et al.	2/4/1999		
	B72	WO	03/010289		Chou et al.	2/6/2003		
	B73	WO	03/079416		Chou	9/25/2003		
	B74	WO	03/099536		Chou et al.	12/4/2003		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

	B75	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001	
	B76	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001	
	B77	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
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	B79	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997	
	B80	Haisma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996	
	B81	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995	
	B82	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003	
	B83	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999	

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	B84	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999	
	B85	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	
	B86	Translation of Japanese Patent 02-92603	
	B87	Translation of Japanese Patent 02-24848	
	B88	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002	
	B89	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technology B 14(16), pp. 4129-4133, 11/1/1996	
	B90	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
	B91	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	
	B92	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	

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	B93	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
	B94	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

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